

FIG. 1

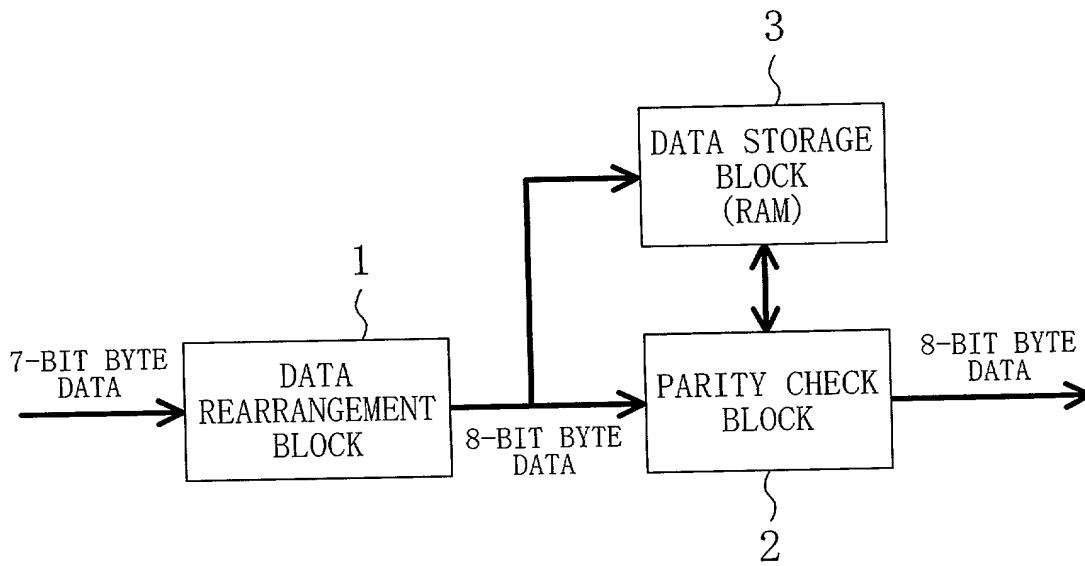


FIG. 2

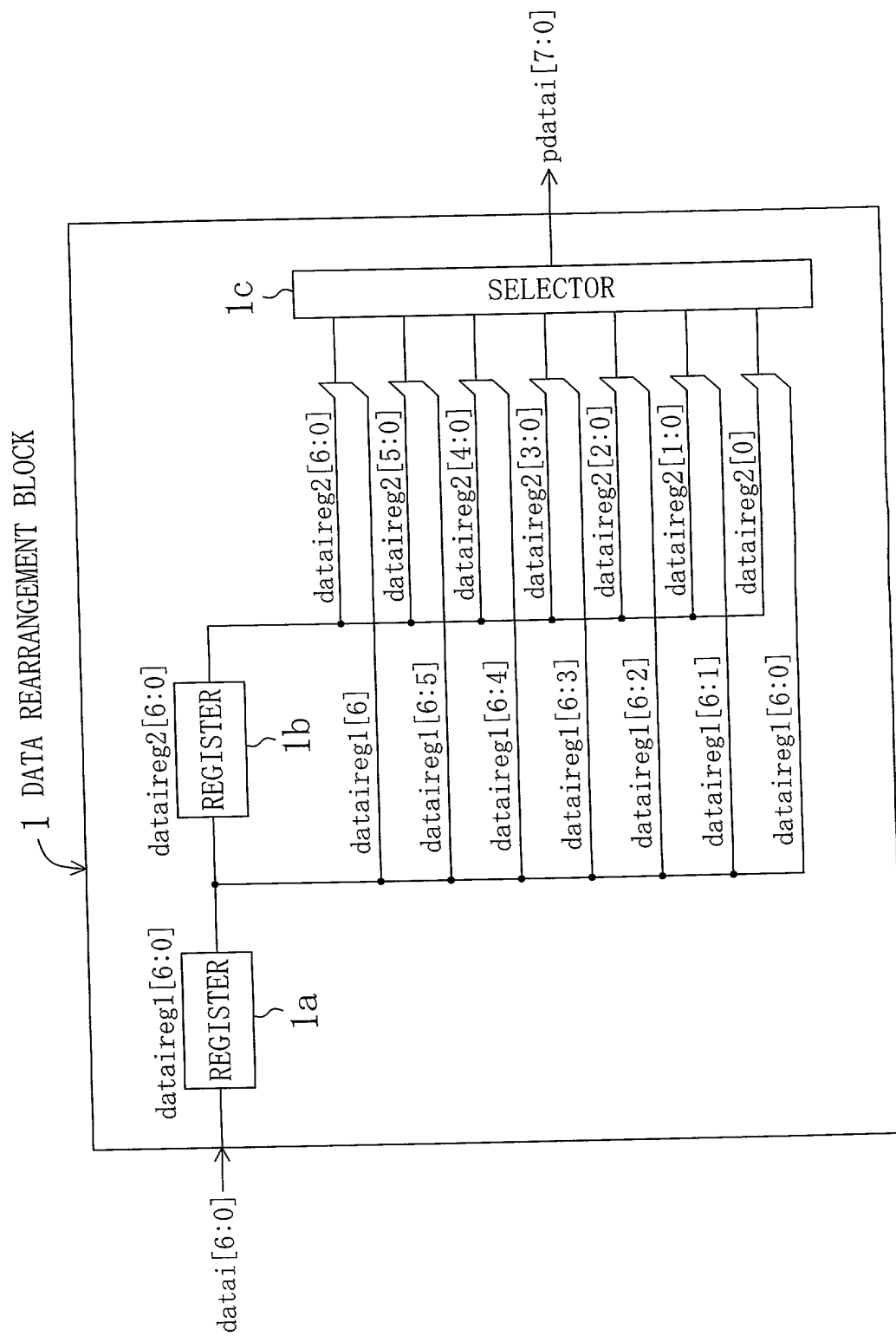


FIG. 3

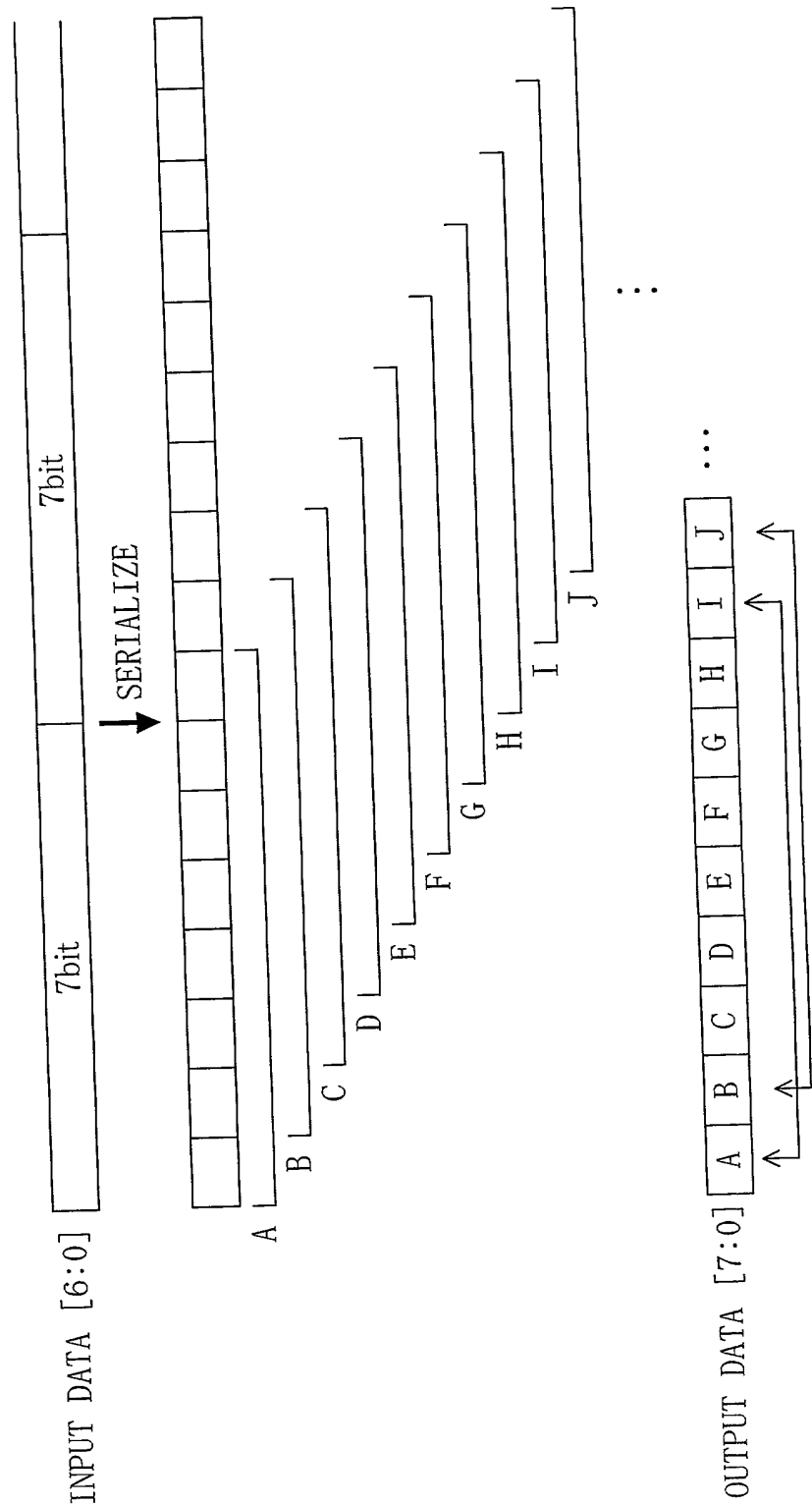


FIG. 4

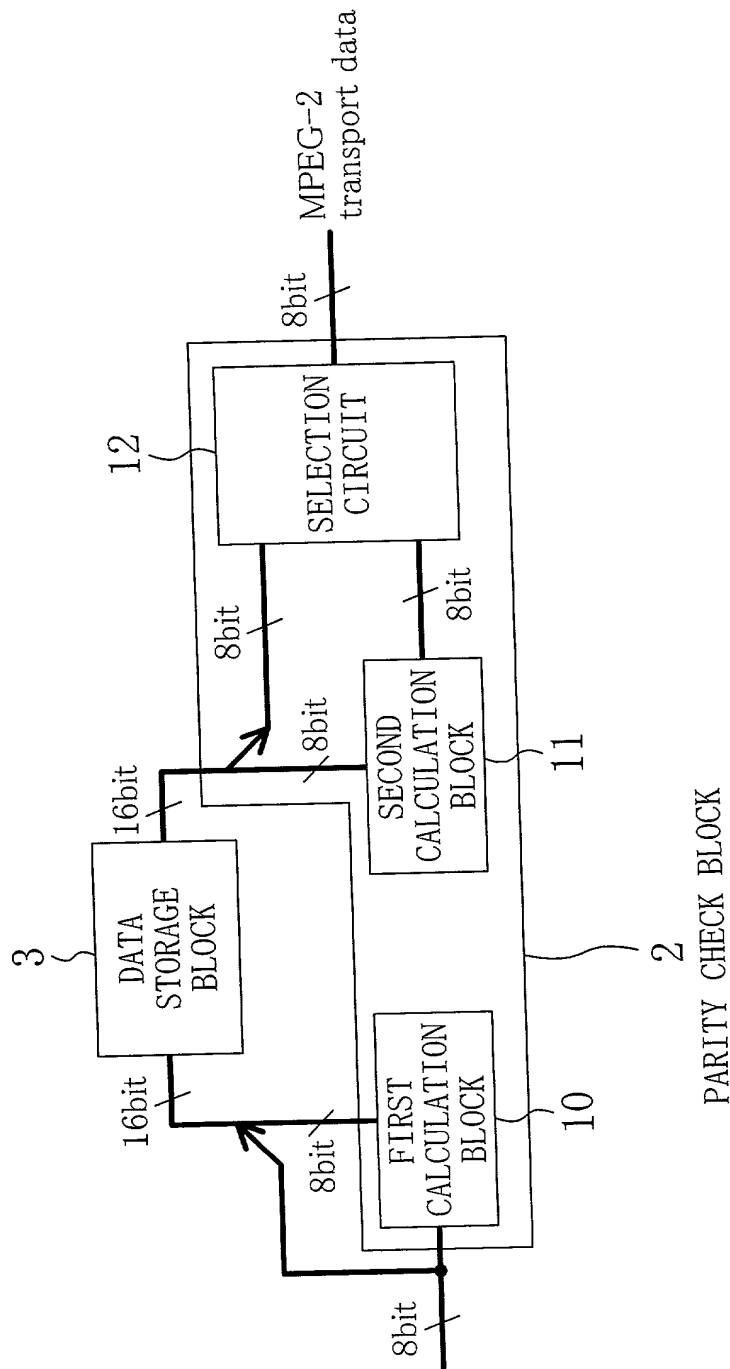


FIG. 5

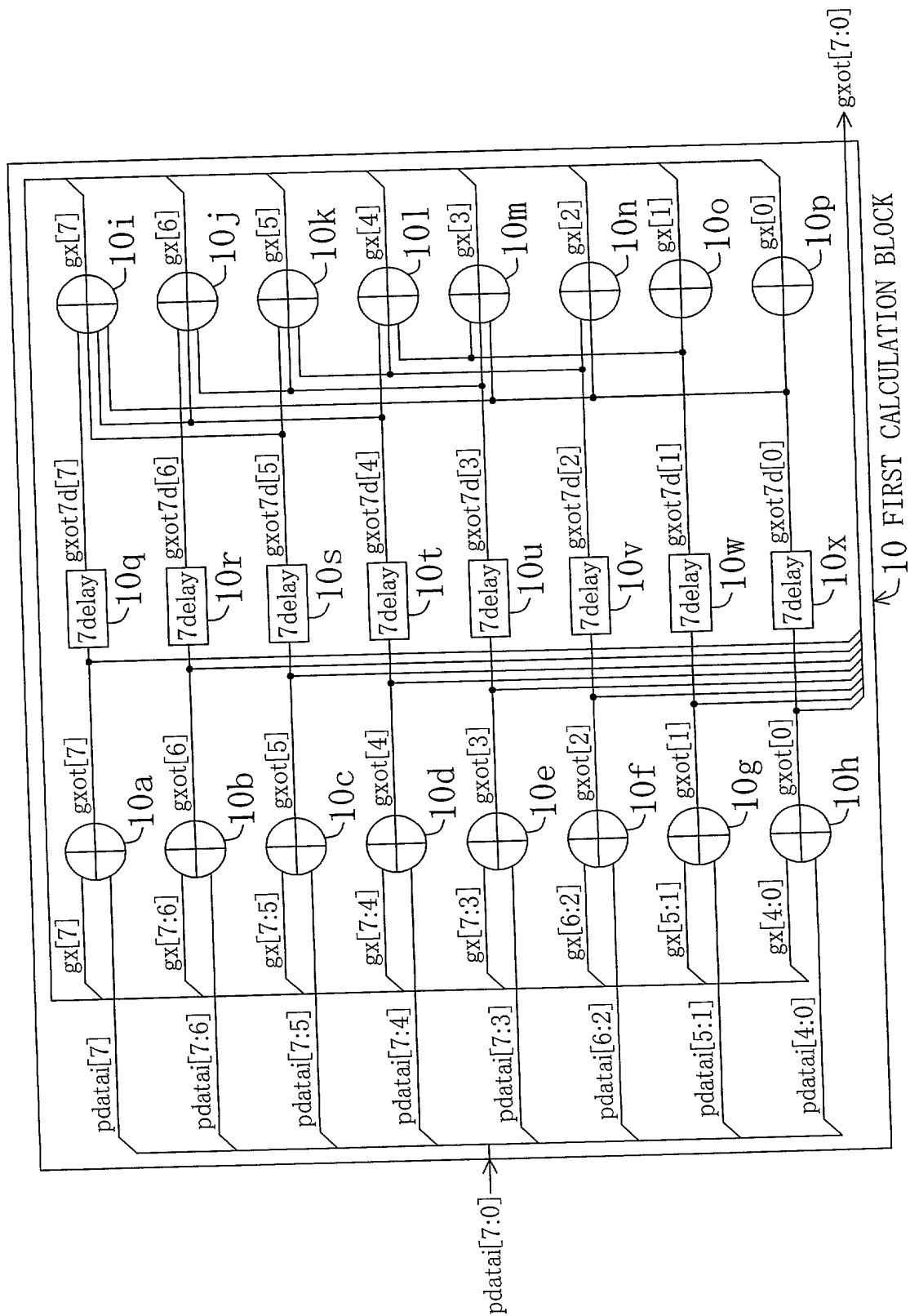


FIG. 6

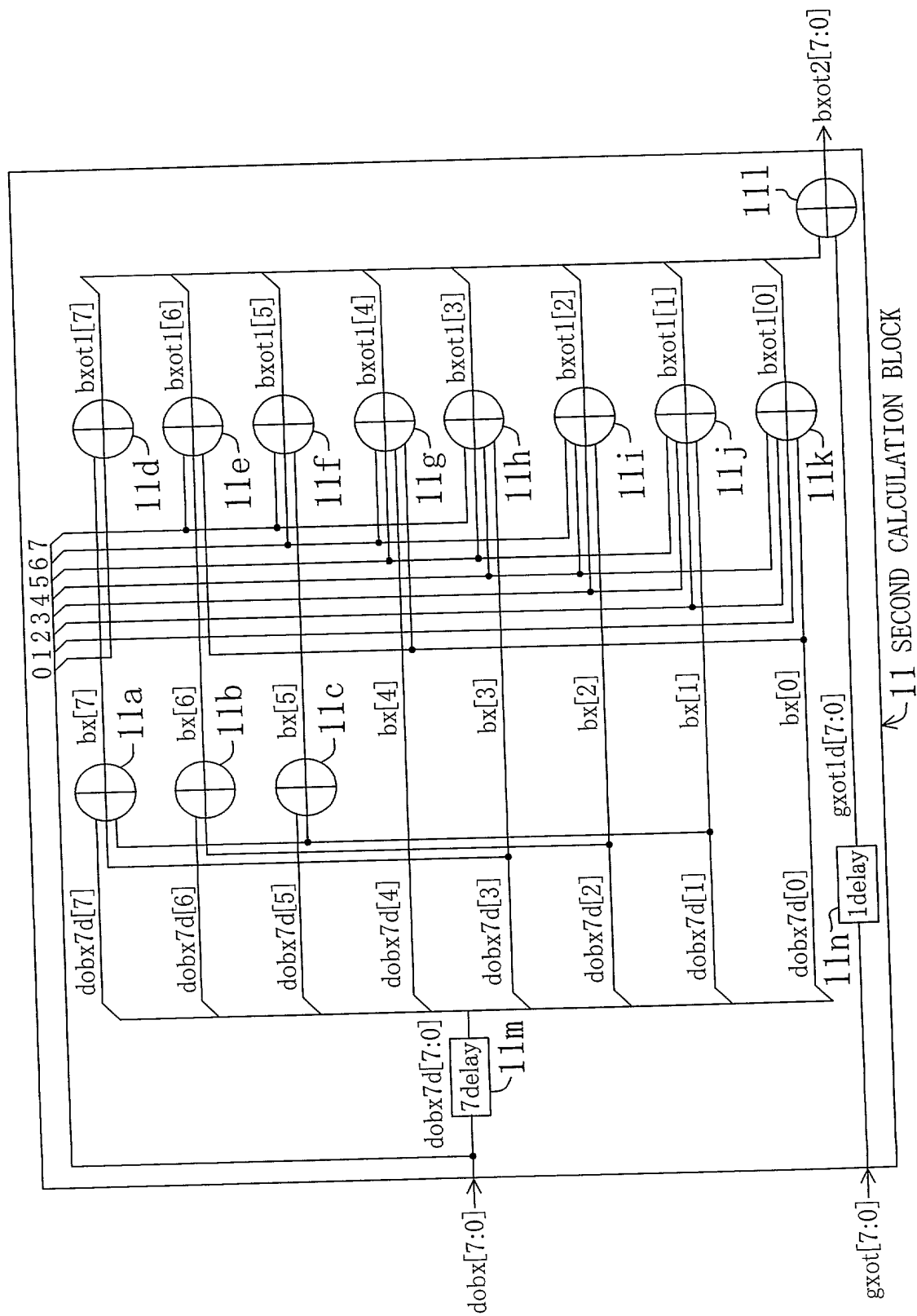


FIG. 7A

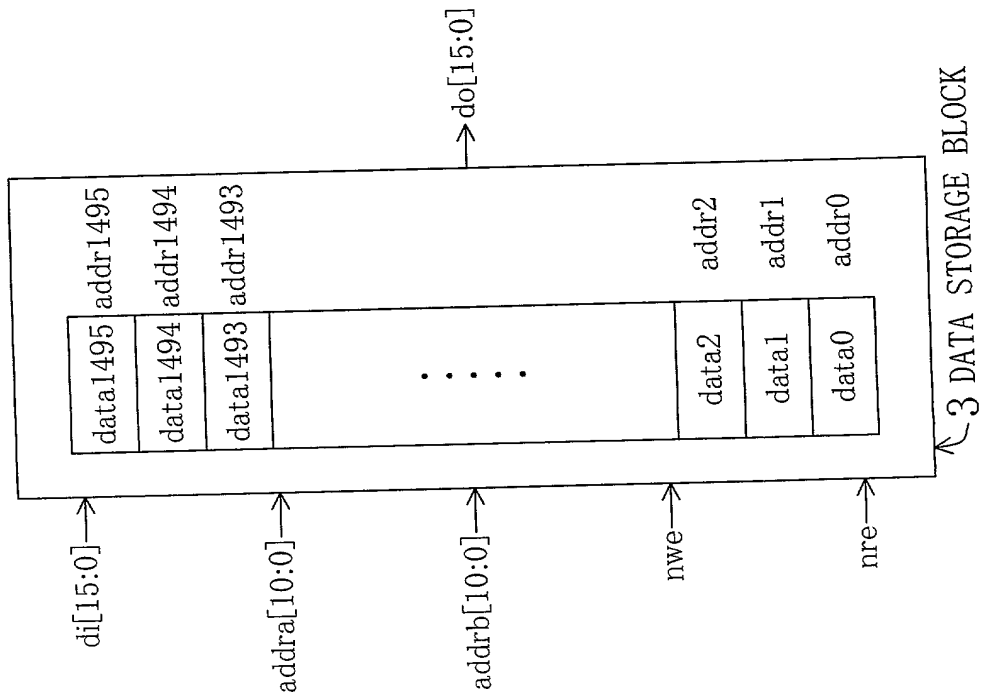


FIG. 7B

time	Read Address ( $addrb[10:0]$ )	Write Address ( $addra[10:0]$ )	$di[15:0]$	$do[15:0]$	nwe	nre
T1495	1494	1495	$data1495$	$data1494$	0	0
T1494	1493	1494	$data1494$	$data1493$		
$\vdots$	$\vdots$	$\vdots$	$\vdots$	$\vdots$		
$\vdots$	$\vdots$	$\vdots$	$\vdots$	$\vdots$		
T2	1	2	$data2$	$data1$	0	0
T1	0	1	$data1$	$data0$		
T0	1495	0	$data0$	$data1495$		

FIG. 8

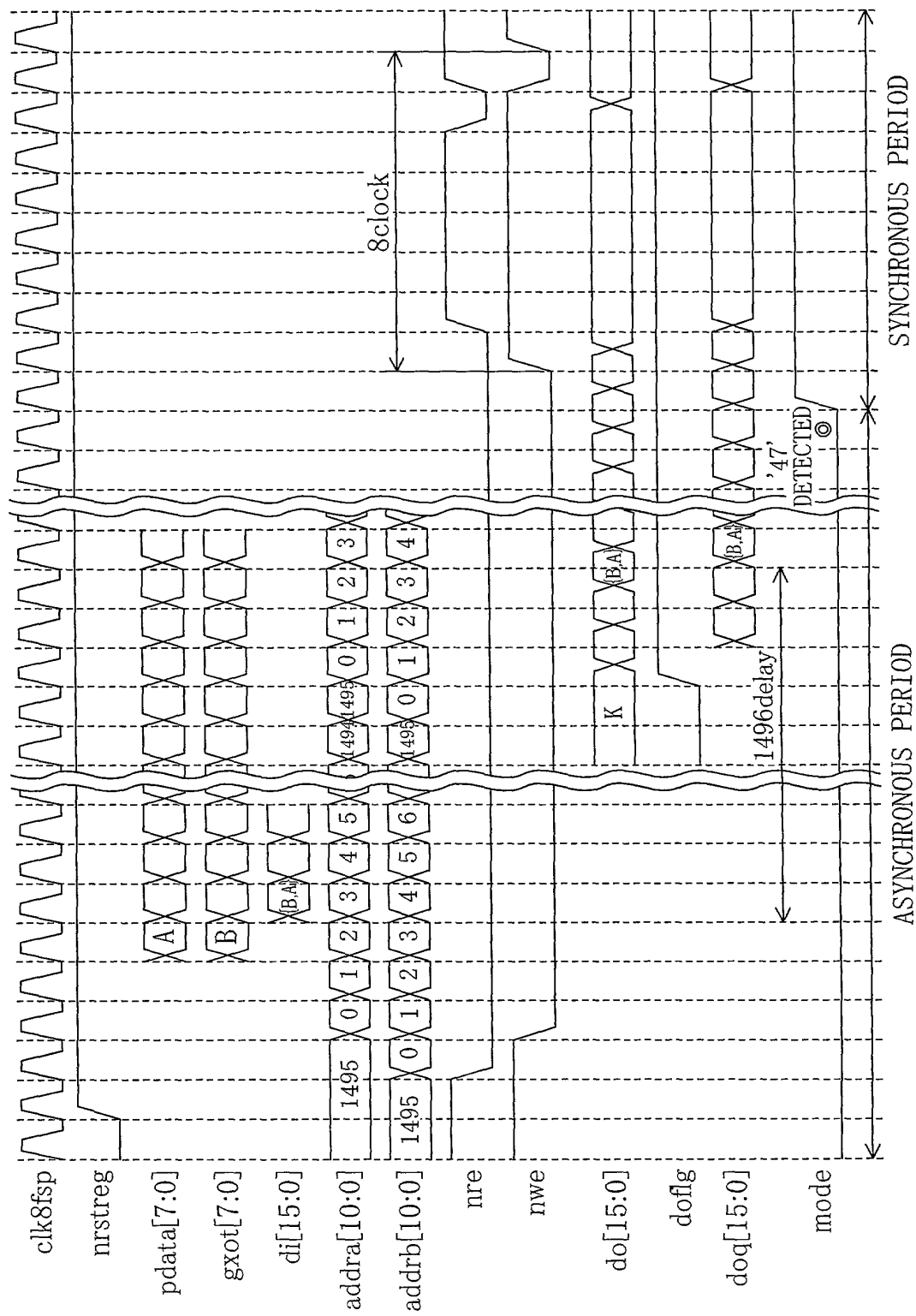




FIG. 9

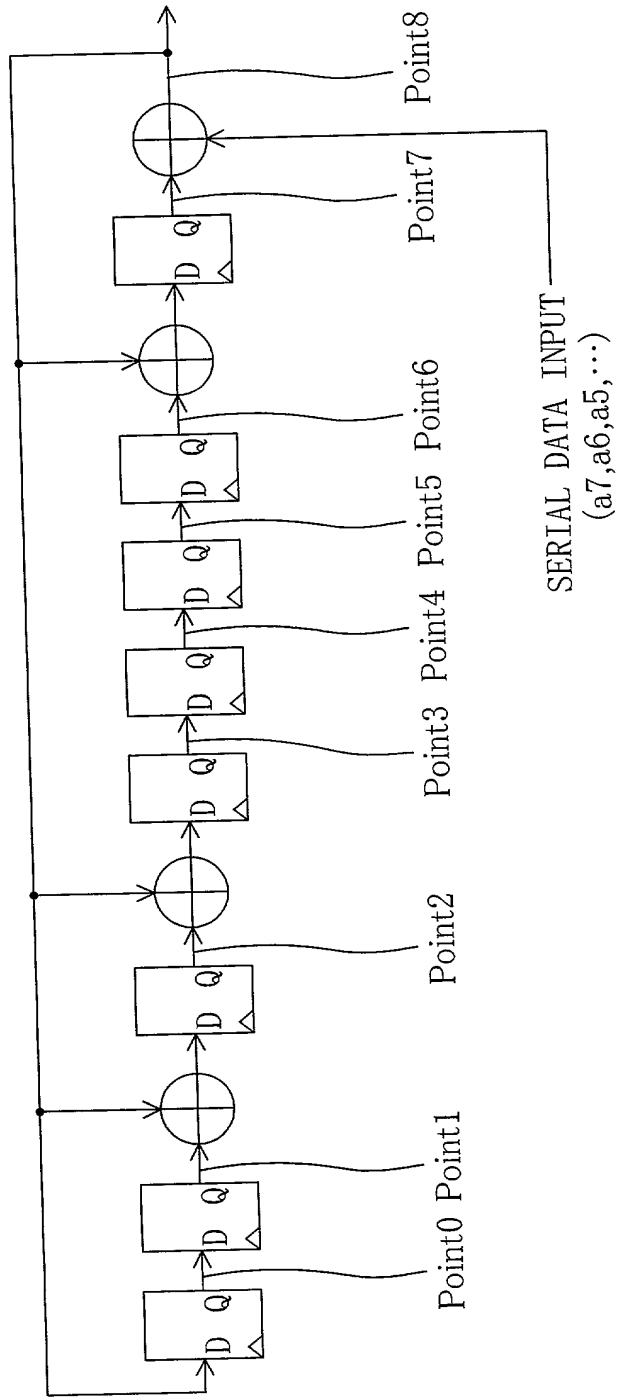


FIG. 10

time	Point8	Point7	Point6
1	X7+a7	X7	X6
2	X6+X7+a7+a6	X6+X7+a7	X5
3	X5+X6+X7+a7+a6+a5	X5+X6+X7+a7+a6	X4
4	X4+X5+X6+X7+a7+a6+a5+a4	X4+X5+X6+X7+a7+a6+a5	X3
5	X3+X4+X5+X6+X7+a7+a6+a5+a4+a3	X3+X4+X5+X6+X7+a7+a6+a5+a4	X2+X7+a7
6	X2+X3+X4+X5+X6+a6+a5+a4+a3+a2	X2+X3+X4+X5+X6+a6+a5+a4+a3	X1+X6+a6
7	X1+X2+X3+X4+X5+a5+a4+a3+a2+a1	X1+X2+X3+X4+X5+a5+a4+a3+a2	X0+X5+a5
8	X0+X1+X2+X3+X4+a4+a3+a2+a1+a0	X0+X1+X2+X3+X4+a4+a3+a2+a1	X4+X7+a7+a4
time	Point5	Point4	Point3
1	X5	X4	X3
2	X4	X3	X2+X7+a7
3	X3	X2+X7+a7	X1+X6+a6
4	X2+X7+a7	X1+X6+a6	X0+X5+a5
5	X1+X6+a6	X0+X5+a5	X4+X7+a7+a4
6	X0+X5+a5	X4+X7+a7+a4	X3+X6+X7+a7+a6+a3
7	X4+X7+a7+a4	X3+X6+X7+a7+a6+a3	X2+X5+X6+a6+a5+a2
8	X3+X6+X7+a7+a6+a3	X2+X5+X6+a6+a5+a2	X1+X4+X5+X7+a7+a5+a4+a1
time	Point2	Point1	Point0
1	X2	X1	X0
2	X1+X7+a7	X0	X7+a7
3	X0+X6+X7+a7+a6	X7+a7	X6+X7+a7+a6
4	X5+X6+a6+a5	X6+X7+a7+a6	X5+X6+X7+a7+a6+a5
5	X4+X5+a5+a4	X5+X6+X7+a7+a6+a5	X4+X5+X6+X7+a7+a6+a5+a4
6	X3+X4+a4+a3	X4+X5+X6+X7+a7+a6+a5+a4	X3+X4+X5+X6+X7+a7+a6+a5+a4+a3
7	X2+X3+X7+a7+a3+a2	X3+X4+X5+X6+X7+a7+a6+a5+a4+a3	X2+X3+X4+X5+X6+a6+a5+a4+a3+a2
8	X1+X2+X6+X7+a7+a6+a2+a1	X2+X3+X4+X5+X6+a6+a5+a4+a3+a2	X1+X2+X3+X4+X5+a5+a4+a3+a2+a1

FIG. 11

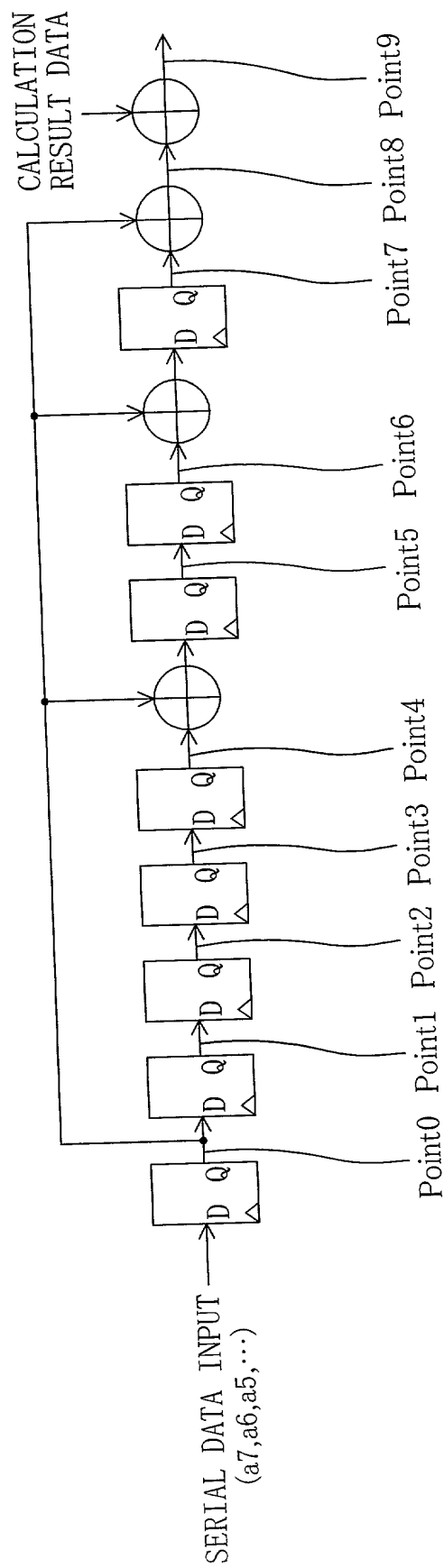


FIG. 12

time	Point9	Point8	Point7	Point6	Point5
1	$gxot1d7+X7+a7$	$X7+a7$	$X7$	$X6$	$X5$
2	$gxot1d6+X6+X0+a7$	$X6+X0+a7$	$X6+X0$	$X5$	$X4+X0$
3	$gxot1d5+X5+a7+a6$	$X5+a7+a6$	$X5+a7$	$X4+X0$	$X3+a7$
4	$gxot1d4+X4+X0+a6+a5$	$X4+X0+a6+a5$	$X4+X0+a6$	$X3+a7$	$X2+a6$
5	$gxot1d3+X3+a7+a5+a4$	$X3+a7+a5+a4$	$X3+a7+a5$	$X2+a6$	$X1+a5$
6	$gxot1d2+X2+a6+a4+a3$	$X2+a6+a4+a3$	$X2+a6+a4$	$X1+a5$	$X0+a4$
7	$gxot1d1+X1+a5+a3+a2$	$X1+a5+a3+a2$	$X1+a5+a3$	$X0+a4$	$a7+a3$
8	$gxot1d0+X0+a4+a2+a1$	$X0+a4+a2+a1$	$X0+a4+a2$	$a7+a3$	$a6+a2$

time	Point4	Point3	Point2	Point1	Point0
1	$X4$	$X3$	$X2$	$X1$	$X0$
2	$X3$	$X2$	$X1$	$X0$	$a7$
3	$X2$	$X1$	$X0$	$a7$	$a6$
4	$X1$	$X0$	$a7$	$a6$	$a5$
5	$X0$	$a7$	$a6$	$a5$	$a4$
6	$a7$	$a6$	$a5$	$a4$	$a3$
7	$a6$	$a5$	$a4$	$a3$	$a2$
8	$a5$	$a4$	$a3$	$a2$	$a1$

FIG. 13

